



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0652.2190001/EKS/Y-WAPPLICATION NO.
09/987,455APPLICANT
Manosroi *et al.*FILING DATE
November 14, 2001GROUP
1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Ne	AR	1	Allen, S. <i>et al.</i> , "Intracellular Folding of Tissue-type Plasminogen Activator. Effects of Disulfide Bond Formation on N-linked Glycosylation and Secretion," <i>J. Biol. Chem.</i> 270:4797-4804, The American Society for Biochemistry and Molecular Biology, Inc. (1995).
Ne	AS	1	Ames, G.F.-L. <i>et al.</i> , "Simple, Rapid, and Quantitative Release of Periplasmic Proteins by Chloroform," <i>J. Bacteriol.</i> 160:1181-1183, American Society for Microbiology (1984).
Ne	AT	1	Barbas, C.F. III <i>et al.</i> , "Assembly of combinatorial antibody libraries on phage surfaces: The gene III site," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 88:7978-7982, The National Academy of Sciences of the U.S.A. (1991).

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ne	AR	2	Barbas, C.F. III and J. Wagner, "Synthetic Human Antibodies: Selecting and Evolving Functional Proteins," <i>Methods</i> 8:94-103, Academic Press (1995).
ne	AS	2	Bennett, W.F. <i>et al.</i> , "High Resolution Analysis of Functional Determinants on Human Tissue-type Plasminogen Activator," <i>J. Biol. Chem.</i> 266:5191-5201, The American Society for Biochemistry and Molecular Biology, Inc. (1991).
ne	AT	2	Betton, J.-M. <i>et al.</i> , "Degradation versus Aggregation of Misfolded Maltose-binding Protein in the Periplasm of <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 273:8897-8902, The American Society for Biochemistry and Molecular Biology, Inc. (1998).

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Ne	AR	3	Camiolo, S.M. <i>et al.</i> , "Fibrinogenolysis and Fibrinolysis with Tissue Plasminogen Activator, Urokinase, Streptokinase-Activated Human Globulin and Plasmin," <i>Proc. Soc. Exp. Biol. Med.</i> 138:277-280, Academic Press (1971).
Ne	AS	3	Cartwright, T., "Production of tPA from Animal Cell Cultures," In <i>Animal Cell Biotechnology</i> , Vol 5, R.E. Spier and J.B. Griffiths (eds.), Academic Press, N.Y. p. 217-245 (1992).
Np	AT	3	Curry, K.A. <i>et al.</i> , " <i>Escherichia coli</i> Expression and Processing of Human Interleukin-1 β Fused to Signal Peptides," <i>DNA Cell Biol.</i> 9:167-175, Mary Ann Liebert, Inc. (1990).

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Re	AR	4	Datar, R.V. et al., "Process Economics of Animal Cell and Bacterial Fermentations: A Case Study Analysis of Tissue Plasminogen Activator," <i>Bio/Technology</i> 11:349-357, Nature Publishing Company (1993).
Re	AS	4	Denèfle, P. et al., "Heterologous protein export in <i>Escherichia coli</i> : influence of bacterial signal peptides on the export of human interleukin 1 β ," <i>Gene</i> 85:499-510, Elsevier Science Publishers B.V. (Biomedical Division) (1989).
Re	AT	4	Griffiths, J.B. and A. Electricwala, "Production of Tissue Plasminogen Activators from Animal Cells," <i>Adv. Biochem. Eng. Biotechnol.</i> 34:147-166, Springer-Verlag (1987).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Kue	AR	5	Harris, T.J.R. <i>et al.</i> , "Cloning of cDNA Coding for Human Tissue-type Plasminogen Activator and its Expression in <i>Escherichia coli</i> ," <i>Mol. Biol. Med.</i> 3:279-292, Academic Press Inc. (1986).
he	AS	5	Heussen, C. and E.B. Dowdle, "Electrophoretic Analysis of Plasminogen Activators in Polyacrylamide Gels Containing Sodium Dodecyl Sulfate and Copolymerized Substrates," <i>Anal. Biochem.</i> 102:196-202, Academic Press, Inc. (1980).
he	AT	5	Heussen, C. <i>et al.</i> , "Purification of Human Tissue Plasminogen Activator with <i>Erythrina</i> Trypsin Inhibitor," <i>J. Biol. Chem.</i> 259:11635-11638, The American Society of Biological Chemists, Inc. (1984).

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	APPLICANT Manosroi <i>et al.</i>	
	FILING DATE November 14, 2001	GROUP 1645

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

he	AR	6	Hu, C.-K. <i>et al.</i> , "Tissue-Type Plasminogen Activator Domain-Deletion Mutant BM 06.022: Modular Stability, Inhibitor Binding, and Activation Cleavage," <i>Biochemistry</i> 33:11760-11766, American Chemical Society (1994).
Ne	AS	6	Kipriyanov, S.M. <i>et al.</i> , "High level production of soluble single chain antibodies in small-scale <i>Escherichia coli</i> cultures," <i>J. Immunol. Methods</i> 200:69-77, Elsevier Science B.V. (1997).
Ne	AT	6	Ko, J.H. <i>et al.</i> , "High-level Expression and Secretion of Streptokinase in <i>Escherichia coli</i> ," <i>Biotechnol. Lett.</i> 17:1019-1024, Chapman & Hall (1995).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

ne	AR	1	Kouzuma, Y. et al., "The Tissue-Type Plasminogen Activator Inhibitor ETIa from <i>Erythrina variegata</i> : Structural Basis for the Inhibitory Activity by Cloning, Expression, and Mutagenesis of the cDNA Encoding ETIa," <i>J. Biochem. (Tokyo)</i> 121:456-463, The Japanese Biochemical Society (1997).
ne	AS	1	Lasters, I. et al., "Enzymatic properties of phage-displayed fragments of human plasminogen," <i>Eur. J. Biochem.</i> 244:946-952, Springer International on behalf of the Federation of European Biochemical Societies (1997).
ne	AT	1	Lobel, L.I. et al., "Filamentous Phage Displaying the Extracellular Domain of the hLH/CG Receptor Bind hCG Specifically," <i>Endocrinology</i> 138:1232-1239, The Endocrine Society (1997).

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he	AR	8	Lubiniecki, A. et al., "Selected Strategies for Manufacture and Control of Recombinant Tissue Plasminogen Activator Prepared from Cell Cultures," In <i>Advances In Animal Cell Biology and Technology for Bioprocesses</i> , R.E. Spier et al. (ed.), Butterworth & Co., London, p. 442-451 (1989).
he	AS	8	Lucic, M.R. et al., "Secretion in <i>Escherichia coli</i> and phage-display of recombinant insulin-like growth factor binding protein-2," <i>J. Biotechnol.</i> 61:95-108, Elsevier Science B.V. (1998).
he	AT	8	Martin, U. et al., "Properties of a novel plasminogen activator (BM 06.022) produced in <i>Escherichia coli</i> ," <i>Z. Kardiol.</i> 79:167-170, Steinkopff Verlag Darmstadt (1990).

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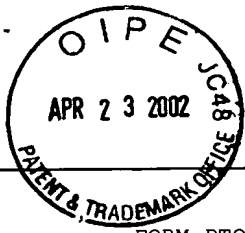
we	AR	9	Obukowicz, M.G. <i>et al.</i> , "Secretion of Active Kringle-2-Serine Protease in <i>Escherichia coli</i> ," <i>Biochemistry</i> 29:9737-9745, American Chemical Society (1990).
we	AS	9	Parmley, S.F. and G.P. Smith, "Antibody-selectable filamentous fd phage vectors: affinity purification of target genes," <i>Gene</i> 73:305-318, Elsevier Science Publishers B.V. (1988).
we	AT	9	Pennica, D. <i>et al.</i> , "Cloning and expression of human tissue-type plasminogen activator cDNA in <i>E. coli</i> ," <i>Nature</i> 301:214-221, Macmillan Journals Ltd. (1983).

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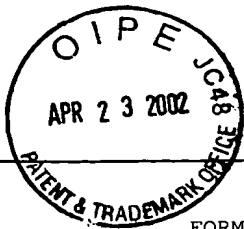
he	AR	<u>10</u>	Rippmann, J.F. <i>et al.</i> , "Procaryotic Expression of Single-Chain Variable-Fragment (scFv) Antibodies: Secretion in L-Form Cells of <i>Proteus mirabilis</i> Leads to Active Product and Overcomes the Limitations of Periplasmic Expression in <i>Escherichia coli</i> ," <i>Appl. Environ. Microbiol.</i> 64:4862-4869, American Society for Microbiology (1998).
he	AS	<u>10</u>	Saito, Y. <i>et al.</i> , "Production and Characterization of a Novel Tissue-Type Plasminogen Activator Derivative in <i>Escherichia coli</i> ," <i>Biotechnol. Prog.</i> 10:472-479, American Chemical Society and American Institute of Chemical Engineers (1994).
Mc	AT	<u>10</u>	Sarmientos, P. <i>et al.</i> , "Synthesis and Purification of Active Human Tissue Plasminogen Activator from <i>Escherichia coli</i> ," <i>Bio/Technology</i> 7:495-501, Nature Publishing Company (1989).

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we	AR	11	Scherrer, S. <i>et al.</i> , "Periplasmic aggregation limits the proteolytic maturation of the <i>Escherichia coli</i> Penicillin G amidase precursor polypeptide," <i>Appl. Microbiol. Biotechnol.</i> 42:85-91, Springer-Verlag (1994).
we	AS	11	Soeda, S. <i>et al.</i> , "Rapid and High-Yield Purification of Porcine Heart Tissue-Type Plasminogen Activator by Heparin-Sepharose Chromatography," <i>Life Sci.</i> 39:1317-1324, Pergamon Journals Ltd. (1986).
we	AT	11	Szarka, S.J. <i>et al.</i> , "Staphylokinase as a Plasminogen Activator Component in Recombinant Fusion Proteins," <i>Appl. Environ. Microbiol.</i> 65:506-513, American Society for Microbiology (February 1999).

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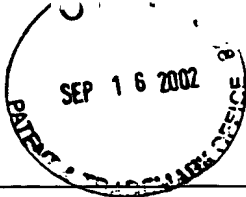
ne	AR	12	Waldenström, M. <i>et al.</i> , "Synthesis and secretion of a fibrinolytically active tissue-type plasminogen activator variant in <i>Escherichia coli</i> ," <i>Gene</i> 99:243-248 (1991).
ne	AS	12	Wan, E.W.-M., "TolAIII Co-overexpression Facilitates the Recovery of Periplasmic Recombinant Proteins into the Growth Medium of <i>Escherichia coli</i> ," <i>Protein Expr. Purif.</i> 14:13-22, Academic Press (1998).
ne	AT	12	Zacharias, U. <i>et al.</i> , "Characterization of Human Tissue-type Plasminogen Activator with Monoclonal Antibodies: Mapping of Epitopes and Binding Sites for Fibrin and Lysine," <i>Thromb. Haemost.</i> 67:88-94, F.K. Schattauer Verlagsgesellschaft mbH (1992).

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	APPLICANT Manosroi <i>et al.</i>	
	FILING DATE November 14, 2001	GROUP 1645

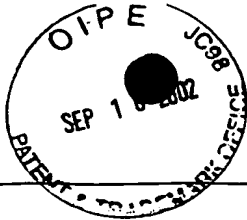
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
ME	AA1	6,083,715	07/04/2000	Georgiou <i>et al.</i>	435	69.1	06/09/1997
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ME	AL1	EP 0 302 456 A1	02/08/1989	Europe			Yes No
ME	AM1	EP 0 357 391 A2	03/07/1990	Europe			Yes No
ME	AN1	EP 0 467 676 A2	01/22/1992	Europe			Yes No
ME	AO1	WO 97/38123 A1	10/16/1997	WIPO			Yes No
ME	AP1	WO 98/54199 A1	12/03/1998	WIPO			Yes No

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ME	AR	13	Andris-Widhopf, J., <i>et al.</i> , "Methods for the generation of chicken monoclonal antibody fragments by phage display," <i>J. Immunol. Meth.</i> 242:159-181, Elsevier Science B.V. (August 2000)
ME	AS	13	Cleary, S., <i>et al.</i> , "Purification and Characterization of Tissue Plasminogen Activator Kringle-2 Domain Expressed in <i>Escherichia coli</i> ," <i>Biochem.</i> 28:1884-1891, American Chemical Society (1989)
ME	AT	13	Hua, Z.-C., <i>et al.</i> , "Synthesis and Expression of a Gene From Kringle-2 Domain of Tissue Plasminogen Activator in <i>E. coli</i> ," <i>Sci. China (Series B)</i> 37:667-676, Chinese Academy of Sciences: Science Press (1994)

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FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0652.2190001/JUK/Y-W	APPLICATION NO. 09/987,455
	APPLICANT Manosroi <i>et al.</i>	
	FILING DATE November 14, 2001	GROUP 1645

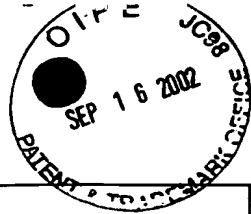
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
ME	AL2	EP 1 048 732 A1	11/02/2000	Europe	 	 	X Yes No
MP	AM2	EP 1 077 263 A1	02/21/2001	Europe	 	 	X Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
ME	AR	14	Manosroi, J., <i>et al.</i> , "Secretion of Active Recombinant Human Tissue Plasminogen Activator Derivatives in <i>Escherichia coli</i> ," <i>Appl. Envir. Microbiol.</i> 67:2657-2664, American Society for Microbiology (June 2001)
ME	AS	14	Qiu, J., <i>et al.</i> , "Expression of Active Human Tissue-Type Plasminogen Activator in <i>Escherichia coli</i> ," <i>Appl. Envir. Microbiol.</i> 64:4891-4896, American Society for Microbiology (1998)
ME	AT	14	Weiner, M.P., and G.L. Costa, "Rapid PCR Site-directed Mutagenesis," <i>PCR Meth. Appl.</i> 4:S131-S136, Cold Spring Harbor Laboratory Pres (1994)

EXAMINER	<u>NE</u> 8/27/03	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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	APPLICANT Manosroi <i>et al.</i>	
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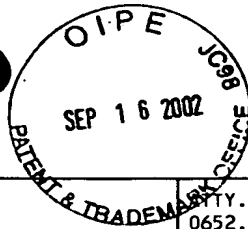
U.S. PATENT DOCUMENTS						
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FOREIGN PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	TRANSLATION
	AL					Yes No
	AM					Yes No
	AN					Yes No
	AO					Yes No
	AP					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
NE	AR	15	Weiner, M.P., <i>et al.</i> , "Site-directed mutagenesis of double-stranded DNA by the polymerase chain reaction," <i>Gene</i> 151:119-123, Elsevier Science B.V. (1994)
NE	AS	15	International Search Report for International Application No. PCT/EP01/12857, mailed May 10, 2002
NE	AT	15	International Search Report for International Application No. PCT/EP01/12920, mailed June 11, 2002

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	APPLICANT Manosroi <i>et al.</i>	
	FILING DATE November 14, 2001	GROUP 1645

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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
<i>me</i>	AR	<u>16</u>	Dialog File 351, Accession No. 13502244, Derwent WPI English language abstract for EP 1 048 732 A1 (Document AL2)
<i>me</i>	AS	<u>16</u>	Dialog File 351, Accession No. 2001-204356/200121, Derwent WPI English language abstract for EP 1 077 263 A1 (Document AM2)
<i>me</i>	AT	<u>16</u>	Pending Non-Provisional United States Patent Application No. 09/987,457, Manosroi <i>et al.</i> , filed November 14, 2001 (NOT PUBLISHED)

EXAMINER	<i>N. Shad</i>	8/27/03	DATE CONSIDERED
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